NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

basic imagery interpretation report

Kuybyshev Experimental Aircraft and Rocket Engine Plant Krasnaya Glinka 2, USSR (TSR)

Strategic Weapons Industrial Facilities

USSR

25X1

Top Secret

25X1

RCA-09/0028/79 49



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NSTALLATION OR ACTIVITY NAME Kuybyshev Experimental Aircraft and Rocket Engine Plant Krasnaya Glinka 2 UR							
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the inform	ation cutoff date for	or the most re	ecent report, is	discussed in	this report.	since	25X
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scribes construc	tion and product graph, and a table	ion activity	at Krasnava	Glinka 2	and includes a lo	cation map, an	
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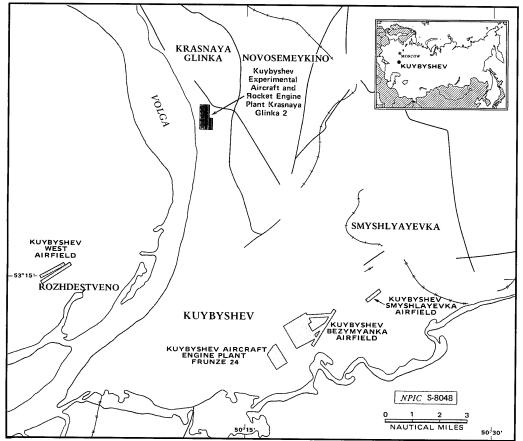


FIGURE 1. LOCATION OF KUYBYSHEV EXPERIMENTAL AIRCRAFT AND ROCKET ENGINE PLANT KRASNAYA GLINKA 2, USSR

25X1

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BASIC DESCRIPTION

Construction Activity

	25 X 1
3. (TSR) This report updates three previous NPIC reports. 1-3 Construction activity observed at Kuybyshev Experimental Aircraft and Rocket Engine Plant Krasnaya Glinka 2 (Figure 1) between resulted in a net increase of approximately 7,335 square meters of floorspace (Figure 2 and Table 1). Approximately 9,636 square meters of floorspace had been added and 2,301 square meters had been razed. Significant buildings constructed during this period consisted of an administration building (item 63), a water filtration building (item 61), a vehicle storage building (item 58), and four storage buildings (items 57, 64, 67, and 68). Other construction activity consisted of the modification of an engine test building (item 43) the addition of an administration/engineering section (item 29b) to a shop building (item 29), and the enlargement of the administration/engineering building (item 30a). The older section of this building (item 30) was undergoing refurbishment by the end of 1974. A shop building (item 26) with floorspace of 2,301 square meters was razed.	25X1 25X1 ,
4. (TSR) Modification of the engine test building (item 43) consisted of the replacement of two cylindrical exhaust stacks with two exhaust silencer/diffuser systems (items 43a and b). Each system consists of a pair of vertical exhaust towers, a 5-meter-diameter diffuser tube, and an exhaust port. Each exhaust port added 67 square meters of usable floorspace to the building. Each exhaust tower was at the top and 25 meters in height. Similar modification has been observed at six other engine research/production facilities in the Soviet Union. ⁴	25X1 25X1
	25 X 1
5. (TSR) Of 5,430 square meters of floorspace added during this period at Krasnaya Glinka 2, approximately 1,826 square meters were razed, resulting in a net increase of 3,604 square meters of usable floorspace. New buildings constructed during this period consisted of a shop building (item 66), a greenhouse (item 59), three storage buildings (items 62, 65, and 70), and six support buildings (unnumbered; Table 1). Other construction activity consisted of the modification of two engine test buildings (items 33 and 44), the addition of three shop sections (items 24a, 28a, and 29a) to their respective buildings, and the addition of two small annexes to a storage building (item 11). Also, six storage/utility buildings (items 1, 2, 4, 13, 22, and 27) ¹ had been razed, and refurbishment of the administration/engineering building (item 30) was complete.	√ 3
6. (TSR) Two cylindrical exhaust stacks were added to an engine test building (item 33) between the first stack (item 33d) is 13 meters high with a diameter of meters. It is connected to the engine test building by a diffuser tube and is to the south. The second stack (item 33c) is 20 meters high with a diameter of the engine test building by a diffuser tube and is 11 meters south of the test building. A second engine test building (item 44) was also modified during this period. The modification was similar to that of the previously discussed engine test building (item 43). However, only one exhaust tower was constructed, rather than a pair of towers. The new silencer/diffuser system (item 44a) consists of a single exhaust tower, an exhaust port which adds 96 square meters of floorspace to the engine test building, and a diameter diffuser tube.	25X1 25X1 25X1 25X1 25X1 25X1 25X1 25X1
Plant Enlargement	
7. (TSR) Krasnaya Glinka 2 was enlarged on three separate occasions during the reporting period, resulting in the addition of 6.5 hectares of land area. The plant was enlarged between when the partially fence-secured northern plant area was secured by a wall (Figure 2). The second time was between when a fence was constructed to secure the new water filtration building (item 61). The third time was between when a wall and fence were built to secure the new underpass which had been created when the new administration building (item 63) was constructed. The fence in the west-central plant area was then replaced by a wall which was built approximately 15 meters west of the old fenceline. 8. (TSR) As of Krasnaya Glinka 2 consisted of 70 significant buildings and structures	25X1 25X1 25X1 25X1 25X1
(three under construction) with a total usable floorspace of 152,063 square meters. Completion of the three buildings (items 56, 60, and 69) presently under construction will result in approximately 1,664 additional square meters of floorspace, for a total of 153,727 square meters at the plant. A second exhaust tower (item 44b) was also under construction on that date. This tower is 5 percent larger than the one constructed at the engine test building.	,

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Table 1.

New Structures at Kuybyshev Experimental Aircraft and Rocket Engine Plant Krissnaya Glinka 2 Since (Items Reyed to Figure 2) Stor/utility bldg Stor futility bldg Stor bldg Stor bldg (2 small annexes) Stor/utility bldg Storapitant Stor/utility bldg Storapitant Shop sel Shop bldg Shop bldg Shop bldg Shop bldg Shop bldg Shop bldg Shop sec Admin/engr bldg Connected being 24 & 27

Connected being 25 & 27

Connected by 2 New addition Engine sest bidg Cylindrical exhaust stack 33 0 d Cylindrical exhaust stack

43 Engine test bldg
Ethnust slencer/
diffuser system

Enhaust towers (2) Exhaust port
Exhaust silencer/
diffuser systems
Exhaust powers [2]
Exhaust powers [4]
Exhaust powers
Exhaust silencer/
diffuser system
Exhaust tower
Exhaust tower Attached to bldg 43

Consists of enhaust port
diffusor tube & 2 enhaust
towers

Connected to enhaust port by
diam diffusor tube

Attached to bldg 44

Ucon
Ucon; foctings only Exhaust tower

Exhaust tower

Exhaust tower

Bldg
Stor bldg
Yeh stor bldg
Oreenhouse

Bldg
Water filtration bldg

Filtration see Stays

Shays

Height could not be determined
Early stage of construction
Separately frome sourced
Pipeline connected to item 37
(see ref doe 1)

3 stories
May be attached to item 25
(see ref doe 1)

3 stories Engr sec Stor bldg Admin blåg Stor blåg Stor blåg Stor blåg Stor blåg Stor blåg Stor blåg Unnumbered blågs (6) Total floorspace, Floorspace added Floorspace razed Total floorspace, Floorspace soon Projected total floo 141,124 15,066 4,127 152,063 1,664 153,727 Top Secret

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Production Activity Kuybyshev Experimental Aircraft and Rocket Engine Plant Krasnaya Glinka 2 is a 25X1 major Soviet aircraft engine research and development (R&D) facility. It has been identified as the location of the design bureau of N. D. Kuznetsov and as a prototype production plant for both turboprop and jet engines. The large size of some of the engine test cells suggests that Krasnaya Glinka 2 may also be involved in the design of rocket engines,1 although no photographic evidence of such activity has been obtained. Observations of aircraft engine shipping containers at the plant, the best indicator of plant activity, were rare during the reporting period. However, at least 12 NK-8 (the engine for the TU-154 CARELESS and the IL-62 CLASSIC) containers were observed on The NK-8 engine is 25X1 which is 7 nautical miles southproduced at Kuybyshev Aircraft Engine Plant 24 25X1 southeast. The NK-12mv (engine for TU-95 BEAR, TU-114 CLEAT, and AN-22 COCK) and the NK-144 (engine for BACKFIRE and TU-144 CHARGER) are also produced at Plant 24.5 It is likely that Krasnaya Glinka 2 is involved in the testing/modification of these engines as well as of the NK-8. REFERENCES **IMAGERY** (TSR) All applicable KEYHOLE imagery of suitable interpretability acquired from 25X1 was used in the preparation of this report. 25X1 MAPS OR CHARTS DMAC. US Air Target Chart, Series 200, Sheet 0165-17, scale 1:200,000 (UNCLASSIFIED) DOCUMENTS RCA-09-0008/69, Kuybyshev Experimental Aircraft Engine Plant Krasnaya Glinka 2, 25X1 Nov 68 (TOP SECRET 25X1 BCA-09-0002/70, Kuybyshev Experimental Aircraft Engine Plant Krasnaya Glinka 2, NPIC. 25**X**1 Aug 69 (TOP SECRET 25X1 BCA-09/0012/71, Kuybyshev Experimental Aircraft Engine Plant Krasnaya Glinka 2, NPIC. 25X1 Oct 70 (TOP SECRET 25**X**1 PIR-009/74, Modified Exhaust Systems At Soviet Aircrast Engine Test Facilities, Feb NPIC. 25X1 74 (TOP SECRET 25**X**1 DDB-1923-2A-78-SAO, Foreign Aircraft Production Communist World (U), Dec 78, p 9 DIA. 25X1 (TOP SECRET 25X1 25X1 REQUIREMENT

COMIREX J02 Project 290046DJ

(S) Comments and queries regarding this report are welcome. They may be directed to Pact Forces Division, Imagery Exploitation Group, NPIC, 25X1

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